

(2008 —1994)



.

11 11

			:
1			1.1
5			2.1
6			3.1
7			4.1
7			5.1
9			6.1
11			7.1
			:
12			1.2
12			1.1.2
14	()	2.1.2
25			3.1.2
25			4.1.2
26			5.1.2
26			6.1.2

27	7.1.2
28	8.1.2
29	9.1.2
32	2.2
34	1.2.2
36	2.2.2
37	3.2.2
42	3.2
42	1.3.2
44	2
45	3.3.2
49	4.3.2
50	5.3.2
51	6.3.2
52	7.3.2
56	8.3.2
60	9.3.2
61	10.3.2
62	11.3.2
63	12.3.2
64	4.2
98	1.3
98	2.3

98	3.3
99	4.3
99	5.3
100	1.4
176	2.4
178	3.4
179	

81		1
100	(2008-1994)	2
100		3
101		4
102		5
103		6
105	. (Enter)	7
106		8
106	+B * = :	9
108		10
	(Enter)	
108		11
109	+B * = :	12
111	(2008- 1994)	13
111		14
112		15
115		16
	(Enter)	
115		17
116	+B * =	18
118	(2008-1994)	19
119		20

و

	(2008-1994)	
119		21
	(2008-1994)	
122	(Enter)	22
122		23
123	4148 + * 116,6 =	24
125	(2008-1994)	25
126		26
	(2008-1994)	
126		27
	(2008-1994)	
128	(Enter)	28
	(2008-1994)	
129		29
130	+B * =	30
132	(2008-1994)	31
133		32
133		33
136	(2008-1994)	34
137		35
137		36
140	(2008-1994)	37
140		38
141		39
144	(2008-1994)	40
145		41
145		42
149	(2008-1994)	43

150					44
150					45
153	(2008-1994)				46
154	(2008-1994)				47
154					48
		si	g	F	
157	(2008-1994)				49
157					50
158					51
160					52
161					53
162					54
163	100,000				55
164	100.000				56
165	10000				57
166	10000				58
167					59
168					60
169					61
170					62
171					63
172					64
173					65
174					66
175					67

(2008 —1994)

2009

2008-1994

(2023-2009)

.

)

.

Abstract

Traffic Accidents in Jordan Their Development Their Dimensions and Results Analytic Study on Traffic Accidents form 1994- 2008

Zaid Mahmood Al-Shamayleh Mu'tah University, 2009

This study aimed at defining the developments and changes that has occurred in the numbers of traffic accidents, and their subsequences through the period of 1994-2008, such as the numbers of mortalities, injuries, and the highest age classes for the mortalities, injured and according to age distribution of the drivers who are engaged in traffic accidents, and to uncover the data that relates to the vehicles involved in traffic accidents and the environmental factors causing accidents.

The study also aimed at predicting the expected numbers of population, vehicles, traffic accidents, mortalities, injuries and the material costs through the next Fifteen years (2009-2023).

To achieve these aims, the available data were collected from the Recoded in the department of Jordanian police force and from the annual reports of the Jordanian traffic academy, and then the data were statistically analyzed using the appropriate analytical methods.

The results revealed, that there is a great increase in the numbers of mortalities, injuries, and the material costs, and that there is a role for the increase in population and vehicles that contributed in the increase in the numbers of traffic accidents, and it was revealed that traffic accidents increase in certain days, and months, at year. As the traffic flow increase at these times.

The study also indicated, according to the available static's, that the numbers of traffic accidents, mortalities, injuries, and the material costs will increase significantly in the next Fifteen years which indicates the extremity of the problem generally.

The study has recommended with the necessity of increasing attention and control against lawbreakers on the roads and those who cause accidents, increasing police patrol on the roads and vehicles specially the public vehicles, also paying much attention to the used roads by enlarging and improving the qualities of these roads so as to encounter the environmental conditions then to encounter the increasing number of traffic accidents.

.(1998)

1887
) (Arson Oldze)
.(1986

```
)
                      . 1896
                           44
                                           (Bred Jet Draseon
  .(2003
                      )
(2004)
                                          3000
                                               % 85
          .(2004
                                        )
                         2020
                   .(2004
                             (2004)
                              .(2006
```

```
.(2006 )
                                               (2004)
 .(19887 )
                         .(2006
(%1)
           (%1.5)
                       (%2)
                  800
                       (%3-1)
                                       (%10-1)
                               .(2005
     1.400.000
                  50
            140)
```

180 .

. %20-10

(44-15) %50 20% .

.(2006) 2020

50 20 . (8.4) %60

(%85)

.(2008)

•

.

.(2004)

```
1994
           (12516) (443)
                                       (26837)
                           .(1993
                                      2000
     2008
                  (18842) (686)
                                           (52796)
(13313) (740) (101066)
               .(2008
                                             )
                      (80) 1994
(2008)
                                 (150)
                                      (2000)
      .(2008
                                   )
                                           (245)
                     (300000)
                                           (13000)
           600
                               200
                                 (%3-2)
   (%50)
              (%20) (45-16)
                       (8-7)
          30
       .(2008
                                    ). (11 -10)
```

.(1997)

) (%6) .(2009

3-1

-1 -2 -3 -4

-4 -5

					4-1
		:	2008-19	.04	-1
•			2008-19	94	2
•					-2
					-3
			•		
					-4
					-5
()				-6
(·)			-7
•		,			
)			•	-8
)			(-0
				(
				•	
					-9
•					
					5-1
:					
			":		
				$(0.05 \ge$)
			":		
				(0.05 ≥)
				-	•

 $(0.05 \ge)$ $(0.05 \ge)$

 $(0.05 \ge)$

```
.(1980
                ):(Road Traffic Accident)
                          .(
                                            ) :(Road)
                        .(
                                          ):(Vehicle)
       .(
                             ):(Traffic Element)
                 .(
            .(
                                               ):
                                                    ):
                                 .(
                                                    ):
                                               .(
          )
                                            (2008- 1994
30
```

:

•

·

:

· :

•

:

.

7.1
-1
-2
:
-2
:
-3

1-1-2

: -

:

. -2

-1

. -3 . -4

. п п

· : -

.

: -1

-2 -3

-5 -6 .(2000 -7 .(2002 -8 -1 -2 -3 -4 .(2000 2-1-2 **(**2008

: -1

.(Stephenson ,2001)
-2

.(2008)

-3 .(2008) -4 .(2008 -5 -6 -7 -8 () .(1982)

:

.(2006) .(2006) .(1989 - 1

-2

: -3

.

: -4

· : -5

.(2006)

.

)

.(1980

.(2002)

.(2006)

.(2006)

```
.(2002
                                                             -3
          .(2002
                           (2006
50)
                                                             (%
80)
                                             100)
                                        (
                                                          (%10)
                                                             - 1
                                                             -2
             .(
             .(2006
                                                            -3
```

-

: -1 .

-2

. -3 . -4

. -5 .(1995) -6

· :

.(

- 0.2) / 115 (0.3

. 30

-:
-:
()
(0.3-0.2)
:()
-2

(1.4)

•

(/ 80)					
		(16.76)				
	(33.25)			(/ 16	0)
		.(1989)			
		:				
					:	-1
	:					
			•			-
			•			-
			•			-
						_
			•			2
					:	-2
				:	•	-3
				. :		-4
				•	•	•
				:		-5

.(2006) - 1 -2 .(- 3 .(1982)

24

- 1

-3

.(1987)

: 3-1-2

•

(1982)
:

.(1997)

.(1982)	(2
,	(3
(1007	.(1982)
.(1997)	(4
	.(1982)
:	5-1-2
	-1
	-2
(1982)	-3
	50
.(1997) .(2008)4
	6-1-2
	:
	-1

```
-2
                                  .(1987
                                              -3
                                              -4
                                              -5
                                  .(1997
                                              -6
                                  .(2006
                                              -7
.(2008 )
                                               7-1-2
                                                   (1
```

(2

(3

.(1987)

8-1-2

-1

-2 -3 -4 .(2005 -5 -6 -7 -8 -9 .(1999) 9-1-2

29

-1

(2006

: (1)

. (2)

. (3)

. -2

.

1.26

. 2000

. 100

-3

25

%85

```
2-2
.(
(Steven vago)

(Steven Vago 1989) .(
```

.(2002)
-1
-2
.(2007)
-3
-4
.(1998)

1-2-2

%10

%41 15 .

%40

•

•

.(2007)

1967

.(2007)

.(2002) .(1982) .(1982 2-2-2

•

1997

2006

(2.2) 1980

(2007

)

(4.6)

(%5-%3.5)

.(2007)

3-2-2

(1970) (1967) .(1973)

.(1991)

) .(2003 .(2001 (1989) (99-89) 300 - 1 -2 -3

38

.(1999

(%3.1) (%3) (%3.3) (%2.1)
.

2003
.(2007)

(6.29) 1995
.(6.75) 2000

7.5 2008

.2001

1989
-1987) %20.2
.(1989
.(2007)
:(2003)

(1993-1989)

(1998-1992) -1989) (1993 (2001-1999) (-(2001-1999) (%14) (%10) .(2007) 2008-1980 -1 -2 -3 -4 -5 .(1994 -6

3-2 () 1-3-2 **Rational Choice Theory** (Rune Clark 1985 (1 .(Cornish 1985 .(clark, 1997)

42

.(

.(2000

- 1

1993

.

.(Ellwanger ,2007)

.(Routine Activity Theory) 2-3-2 (Marcos Felson)

.(motivated offender) -1
.(suitable victim) -2
.(capable guardian) -3

(2000)

(Louise shelly)

.(Daniel Lerner)

(Clinard& Abbott)

3-3-2

.

.

· :

.

:

·

()

.(2000) (strain) 4-3-2

(Mazerolle & piquero ,1998,)

:

.

.(Mazerolle ,2003),

(Mazerolle,1998,).

.(Ellwanger ,2007)

Life Style Theory

(Handling M.J):
.(J. Garofalo) (N.Gottefredson)
:
.(Life Style) -1

By Reference To People Associates) -2
.(With Whom One
.(To Home One Is Exposed) -3

.(2001) : **6-3-2**

(Akers 1990,1994)

7-3-2

(Dziegielewski & Wodarski 2002)

(Micro Theories)

. (Biological Evaluation) -1

(National Selection)

(Erickson Psychosocial Theory). -2

)

.(12-0)

```
(25-12)
                       .( 50-25)
(
      50
                          .( 2005
                                                                -3
               .( Behavioral Learning Theory )
                                                                -1
                                     ( Pavlov)
           (Classical Conditioning)
             (Instrumental Conditioning)
                          .(2005
                 .(Operant Condition)
                                                                -2
                         (Reinforcement)
(Reward)
                         (Negative Reinforcement)
```

```
(Punishment)
              (Extinction)
                                                     .( 2005
Social Cognitive Learning )
                                                        .(Theory
                                      (Bandora1991)
                              (Observational Learning)
  .( Modeling )
                               (Imitation)
       ( Piaget Cognitive Theory)
                                                                  -4
Proportional Formal)
                                       (Sense orimotor)
                                                        ( Operational
                            (Assimilation)
                (Accommodation) (Schemes)
                .( 2005
        (Information-Processing Theory )
                                                                 -5
```

.(2005 Cultural Context Cognitive -6 (Development) (Vegotsky) Concrete Operational) Formal) (Stage (Operational Stage

(Kelleher 1989)

(Attribution Theory)

(Hider 1958)

8-3-2

```
.(1995
                                       (Intentionally)
      (Association)
                                  (Causally)
            (Foresee ability)
                           ( Justifiability )
                            .( 1993
             (Social Exchange Theory)
                                                           -1
                   (Johnson)
                                     (Humans)
  (Cost)
                                                     (Reward)
.( 2005
```

(Symbolic Interaction Theory)	-2
(Symbol)	. (Socialization)
. (Macro Level Theory)	.(2005)
	(Formal Organization)

.

· ()

. -1

. -2

.

(**1975**) **9-3-2** - -) (

_ _ _

-1 -2 -3

;

. -1

-3

·

.

:

()

(2004)

10-3-2

11-3-2

- ()

:

.(linear theories) (1

.(Cyclical Theory) (2

(Sorokin)

```
(sensate culture)
                                         Idealistic
                                                                 .( 2001
                              (Literature Review )
                                                                     4-2
               (Stallard et al., 1998)
83
        75
```

(Ideation culture)

18- 7

.

(29.1) 46 :

(Post Traumatic Stress Disorder) PTSD

%17.7 %20.3

()

.(2006)

(Blanchard & Hickling, 2003)

(

%45-10

.(%5) (%10.4)

•

%53 %10 .

. 43.5

.(2006)
(Danny koren, 1999)

" : *(*"

:

. (PTSD)

74 24 :

.

()

(19000) %10 %42 %17 %45 %18 (Van wolffelaaar, Brouwer and Rothen gather 1990) (

60

) (tasca 2008)

(fatality Analysis reporting system (FARS))

-5

-6 -7 -8 .() -9

. -10 . -11

%56 (2007 2003)

(192069) 2007-2003 (456) 212.997

```
(191.613)
                           456
             212.427
                                      289.679
                                  (%44.3)
                                  (%47.3)
                                   (%7.9)
                                   (% 0.5)
                        (%55.7)
                                   (%50)
                                  (%42.2)
                                   (%7.8)
                                  (%94.5)
(34-16)
       (60-35)
                              (%58.8)
                                     .(%35.3)
     (Gerry wild, 1997)
(
```

.(Roger,1997) (Andrew P.Tarko 2009) (Frederick A. Deblasio 1986)

()

· -:

-;

. %57 -1 . %78 -2

. -3 %62 -4

```
16
                              %46
                                                  -7
                            %67
             17
                                                  -8
                                                  -9
                                -3
                                        -2
                                                 - 1
                                        -6
-8
                      -7
                                                 -5
                                         - 9
     (Ellwanger, 1997)
                -:(
(General Strain Theory (GST))
```

.(AA.Foundation, 1988) () (rothe 1987) Rethinking Young Driver - 1 .(19-16) %66 %34 -2 -3 -14) (16 .%47 (%81) -4 .() (19) -5 (16)) (valdivieso, 1999)

.(

```
80 (25-18)
                           80
                                  50-25)
              (Stephenson, 2001)
    24
              12600
                                  .(
                                    (%87) -1
                                      (%89) -2
                                      (%91) -3
                                      (%76) -4
                      (Jemens, 1999)
     (24-17)
```

) (Timo lajunen,1998) .(

270

() -1

-2 -3

. -4

-5

```
(2004)
                   (2004)
                    (
                   2020-1990
                                            - 1
                                            -2
                                            -3
0.99
                                            -4
       .(
                  %3.4
                                 2.34
%80
                                            -5
%30
                                            -6
  .(
                  %5.1 ) 71.2
                                        34.3
        (2004
                 ) (2004)
                  %27
```

.2020 2000

.%83

()

.2020 2000

(1)

2020									
	100000	-2000 2003	2020	2010	2000	1990			
16.8	10.9	79	337	278	188	112	15		
21.2	19	19	38	36	32	30	9		
31	26.1	48	180	154	122	90	31		
22.3	19.2	68	94	73	56	41	13		
18.9 14.9	10.2 12.3	144 80	330 144	212 109	135 80	87 59	7 46		
19	13.3	83	1124	862	613	419	121		
7.8	11.8	-27	80	95	110	123	35		
17.4	13	68	1204	957	723	542	156		

%48

.(%27 -)

.%144

) (miao m.Chong,1995) .(

```
( National Automotive Sampling System) (NASS) (General Estimates System) (GES) (
```

(Barry. Watson 2004))

(309)

.

. : -1

-2

-3

. -4 . %9 -5

-6 -7

-9

. %10 %30

) (2006)

.2005 - 2001 (37 - 16)

.() (1983)

:

%84

%46 %43 %10 %66

```
(1989
1983
             11125
1978
                       1981 1978
                                              1262
                      1418
                                1981
                    1983
                                  (1995
                 (%9.9)
                                           (17.7)
```

. (%1.5) (%3)) (2002) (-1998) (2000-1995)

(2000-1998)

.(2003 (1988 %86 35 .(1988 (1997 1996 (169930) (20808)

(368694)

22 23 58 : .8 14 15 16 19 (1997)

700

. 50

200 10.000

1989

: (1999) :

(2008)

· :

. (1

%5 (2

(3

.%99.4

%39 5-3 (4

(9-8) (18, 17), (17, 16), (14, 13)

. (18 -17) (17-16) (14-13) (1995)

(26837)						
100		12516	443			
		.199	94			
		1.12	1993			
	400		15.1			
		(1	(14.5) 1994			
	(2002)				
:						
			-1			
			-2			
		(%20)) -3			
		•				
		(1985)			
		154				
%51	79					
•						
•		%32	50			
14 .		%11	17			
5 .			26			
	5					

(1989 (177) (1987- 1970) (9000) (400) (6598) (64) (1997 (1995 .(1994-1985) (1994-1970) (%841)

(%112)

(%469)

1994 1971 (1996) (1984 .(1989 %45 (1985 (25-21)

(2005) -1 -2 -3 -5 -6)

(1995)
. (2000)
. (124)

%79 . %13.7 (2000)

1999

```
(2008-1994)
```

1-3

2-3

2008 -1994

. (2008-1994

3-3

		4-3
	•	5-3
	.(Spss.10)	
	(Descriptive statistic Measures)	-1
	(ANOVA)	-2
		-3
(Enter)	(Simple Regression Analysis)	-4

: **1.4**

:

." (0.05 ≥ α)

II II

.2008-1994

. (2)

(2008-1994) 21-25 1994 0-5 0-5 21-25 1995 21-25 0-5 1996 21-25 21-25 1997 21-25 0-5 1998 21-25 0-5 1999 21-25 0-5 2000 21-25 21-25 2001 2002 21-25 24-26 2003 21-25 26-30 21-23 2004 21-25 21-25 2123 2005 2006 24-26 3.-5 24-26 21-23 2007 21-23 27-29 2008

(3)

(3)

(2008-1994)

5 - 0
23 - 21
25 -21
26- 24
23 - 21
29 - 27

(3)

.(5-0) (23-21)

(4)

(4)

ig F				
0,301	1,433	30145	150727,4	5
		21035,82	189322,4	9
			340049,7	14
			:(4)	
	(1,433) F		
			(0.05 ≥	α)
	(5)			
	(3)			
		(5)		
		13913	23 .	- 21
		16771		
				5-21
		17994	26	24

. (6)

.(23-21)

(26-24)

(6)

sig	F			
0,302	1,33	5574235,3	11148471	2
		4208187,2	50498246	12
			61646717	14

(6)

 $(0.05 \ge \alpha)$

.

21 5)

45 21)

...

104

()

•

(7) (Enter)

(7) (Enter)

sig	F			
		(2 [^] R)	(R)	
0,00	57,06	0,81	0,90	

(7)

0.81

 $.(0.05 \ge \alpha)$

(31.45) B . (8) 0.00 (456.87) (8)

			В		sig	
		45	069 31,4	00 12,0	0,0	456,87
)
					(
(0)					(
(9)	•					
			(9)			
			:	* =	+B	
		В				
1994	1	31.5	456.87	443	2	488.32
1995	2	31.5	456.87	469	7	519.77
1996	3	31.5	456.87	552	2	551.22
1997	4	31.5	456.87	577	57	582.67
1998	5	31.5	456.87	612	2	614.12
1999	6	31.5	456.87	676	7	645.57
2000	7	31.5	456.87	686	2	677.02
2001	8	31.5	456.87	783	7	708.47
2002	9	31.5	456.87	758	2	739.92
2003	10	31.5	456.87	832	7	771.37
2004	11	31.5	456.87	818	2	802.82
2005	12	31.5	456.87	790	.7	834.27
2006	13	31.5	456.87	899	2	865.72
2007	14	31.5	456.87	992	7	897.17
2008	15	31.5	456.87	740	2	928.62
2009	16	31.5	456.87		7	960.07
2010	17	31.5	456.87		2	991.52
2011	18	31.5	456.87		97	1022.9

1054.42	456.87	31.5	19	2012
1085.87	456.87	31.5	20	2013
1117.32	456.87	31.5	21	2014
1148.77	456.87	31.5	22	2015
1180.22	456.87	31.5	23	2016
1211.67	456.87	31.5	24	2017
1243.12	456.87	31.5	25	2018
1274.57	456.87	31.5	26	2019
1306.02	456.87	31.5	27	2020
1337.47	456.87	31.5	28	2021
1368.92	456.87	31.5	29	2022
1400.37	456.87	31.5	30	2023

;

+B * =

2008 1994

82.

(2023 - 2009)

1243 2018 1085 2013

. 1400 2023

1400

```
(10)
                                                 (Enter)
                             (10)
                                (Enter)
           F
  sig
                       (R^2)
                                         (R)
                          0,16
                                         0,40
     0,14
            2,51
                                             (10)
                          0.16
                                              0.40
                                             .(0.05 \ge \alpha)
       (188.87) B
                                                      (15232.76)
                (11)
                                 0.14
                             (11)
             sig
                                      В
               0,14
 15232,76
                       14,06
                                       188,87
       )
                                                                    (12)
```

(12) +B * =

	. 2	•	
			В

			В		
15421.63	12516	15232.76	188.87	1	1994
15610.5	13184	15232.76	188.87	2	1995
15799.37	15375	15232.76	188.87	3	1996
15988.24	16259	15232.76	188.87	4	1997
16177.11	17177	15232.76	188.87	5	1998
16365.98	19015	15232.76	188.87	6	1999
16554.85	18842	15232.76	188.87	7	2000
16743.72	18832	15232.76	188.87	8	2001
16932.59	17381	15232.76	188.87	9	2002
17121.46	18368	15232.76	188.87	10	2003
17310.33	16727	15232.76	188.87	11	2004
17499.2	17579	15232.76	188.87	12	2005
17688.07	18019	15232.76	188.87	13	2006
17876.94	17969	15232.76	188.87	14	2007
18065.81	13913	15232.76	188.87	15	2008
18254.68		15232.76	188.87	16	2009
18443.55		15232.76	188.87	17	2010
18632.42		15232.76	188.87	18	2011
18821.29		15232.76	188.87	19	2012
19010.16		15232.76	188.87	20	2013
19199.03		15232.76	188.87	21	2014
19387.9		15232.76	188.87	22	2015
19576.77		15232.76	188.87	23	2016
19765.64		15232.76	188.87	24	2017
19954.51		15232.76	188.87	25	2018
20143.38		15232.76	188.87	26	2019
20332.25		15232.76	188.87	27	2020
20521.12		15232.76	188.87	28	2021
20709.99		15232.76	188.87	29	2022
20898.86		15232.76	188.87	30	2023

(0.14)

:

+B * =

2008 199416.

(2023 - 2009) 19954 2018 19010 2013

20898 2023

20898

." : $(0.05 \ge \alpha)$

. (13) .2008-1994

(13) (2008- 1994)

26837	304893	1994
28970	321373	1995
33784	342337	1996
39005	362811	1997
43343	389196	1998
50330	418433	1999
52796	473339	2000
52662	509832	2001
52913	542812	2002
62115	571498	2003
70266	612330	2004
83129	679731	2005
98055	755477	2006
110630	841933	2007
101066	905592	2008

(14)

15	191443.69	535439	
1.5	26002.70	(0202 40	
15	26803.70	60393.40	

191443.69 535439

15 26803.70 60393.40

. (15) (15)

.980** 1.00 .000 ... 15 15 1.00 .980**000

0.98 (0.05 ≥ α)

()

(1995)

(1997) .

· (1997)

16 23 58

(2004)

(2005) .

·

24.000 2009 .(2009)

(16) (Enter)

(16)

(Enter)

sig	F			
0,00	268,9	0,954	0,977	

(16)

0.97 0.95

.(0.05 $\geq \alpha$)

41809,42 B

(17)

0.00

200963,76

(17)

	sig		В	
200963,76	0,00	8,67	41809,42	

)

(

(18)

(18) +B * =

			В		
242773.18	304893	200963.76	41809.42	1	1994
284582.6	321373	200963.76	41809.42	2	1995
326392.02	342337	200963.76	41809.42	3	1996
368201.44	362811	200963.76	41809.42	4	1997
410010.86	389196	200963.76	41809.42	5	1998
451820.28	418433	200963.76	41809.42	6	1999
493629.7	473339	200963.76	41809.42	7	2000
535439.12	509832	200963.76	41809.42	8	2001
577248.54	542812	200963.76	41809.42	9	2002
619057.96	571498	200963.76	41809.42	10	2003
660867.38	612330	200963.76	41809.42	11	2004
702676.8	679731	200963.76	41809.42	12	2005
744486.22	755477	200963.76	41809.42	13	2006
786295.64	841933	200963.76	41809.42	14	2007
828105.06	905592	200963.76	41809.42	15	2008
869914.48		200963.76	41809.42	16	2009
911723.9		200963.76	41809.42	17	2010
953533.32		200963.76	41809.42	18	2011
995342.74		200963.76	41809.42	19	2012
1037152.16		200963.76	41809.42	20	2013
1078961.58		200963.76	41809.42	21	2014
1120771		200963.76	41809.42	22	2015
1162580.42		200963.76	41809.42	23	2016
1204389.84		200963.76	41809.42	24	2017
1246199.26		200963.76	41809.42	25	2018
1288008.68		200963.76	41809.42	26	2019
1329818.1		200963.76	41809.42	27	2020
1371627.52		200963.76	41809.42	28	2021
1413436.94		200963.76	41809.42	29	2022
1 4 7 7 0 4 6 0 6		200062 76	44000 40	2.0	0000

.(0.05 $\geq \alpha$)

:

1455246.36

200963.76

41809.42

30

2023

+B * =

2008 1994

95.
.(2023 - 2009)

2018 1037152 2013

.1455246 2023 1246199

.

1455246

. " :

 $(0.05 \ge \alpha)$

. (19) .2008-1994

(19) (2008-1994)

26837	4200	1994
28970	4290	1995
33784	4444	1996
39005	4600	1997
43343	4755	1998
50330	4900	1999
52796	5039	2000
52662	5182	2001
52913	5329	2002
62115	5480	2003
70266	5350	2004
83129	5473	2005
98055	5600	2006
110630	5723	2007
101066	5850	2008

.

(20)

(2	00	8-	1	99	4)
١	<u>'</u>	σ	O	1	ノノ	т,

15	26803.70	60393.40	
15	528.45	5081.00	

5081.70

528.45

. 15 26803.70 60393.40

: (21) (21)

(2008-1994)

.918**	1.00	
.000		
15	15	
1.00	.918**	
	0.000	
15	15	

0.918 $(0.05 \ge \alpha)$

.

(1989) 1987 -1970

. (9000) (6598) (177)

(1995)

(2000) (1994-1985)

(22) (Enter)

(22) (Enter) sig F (2^R) (R) 489,0 0,987 0,00 0,974 () (22) 0.97 .(0.05 ≥ α)0.98 4148) (116,6) B (23) 0.00 (23) sig В 4148 0,00 86,5 116,6

(24)

(24) 4148 + * 116,6 =

			В		
4264.6	4200	4148	116.6	1	1994
4381.2	4290	4148	116.6	2	1995
4497.8	4444	4148	116.6	3	1996
4614.4	4600	4148	116.6	4	1997
4731	4755	4148	116.6	5	1998
4847.6	4900	4148	116.6	6	1999
4964.2	5039	4148	116.6	7	2000
5080.8	5182	4148	116.6	8	2001
5197.4	5329	4148	116.6	9	2002
5314	5480	4148	116.6	10	2003
5430.6	5350	4148	116.6	11	2004
5547.2	5473	4148	116.6	12	2005
5663.8	5600	4148	116.6	13	2006
5780.4	5723	4148	116.6	14	2007
5897	5850	4148	116.6	15	2008
6013.6		4148	116.6	16	2009
6130.2		4148	116.6	17	2010
6246.8		4148	116.6	18	2011
6363.4		4148	116.6	19	2012
6480		4148	116.6	20	2013
6596.6		4148	116.6	21	2014
6713.2		4148	116.6	22	2015
6829.8		4148	116.6	23	2016
6946.4		4148	116.6	24	2017
7063		4148	116.6	25	2018
7179.6		4148	116.6	26	2019
7296.2		4148	116.6	27	2020
7412.8		4148	116.6	28	2021
7529.4		4148	116.6	29	2022
7646		4148	116.6	30	2023

$$.(0.05 \ge \alpha)$$
 :

4148 + ***116.6** =

2008 1994

.98

(2023 - 2009)

2018 6.480 2013

. 7.646 2023 7.063

•

7.646

.

· :

 $(0.05 \ge \alpha)$

(25) .2008-1994

(25)

(2008-1994)

()		
	80	26837	1994
	90	28970	1995
	100	33784	1996
	117	39005	1997
	128	43343	1998
	142	50330	1999
	150	52796	2000
	160	52662	2001
	170	52913	2002
	190	62115	2003
	202	70266	2004
	220	83129	2005
	258	98055	2006
	281	110630	2007
	245	101066	2008

(26) (2008-1994)

(26)

(2008-1994)

15	26803.70	60393.40			
15	61.09	169.93			
			()	

26803.70 60393.40 15 61.09 169.93

(27) .(2008-1994) (27)

(2008-1994)

.989**	1.00				
.000 15	. 15				
1.00	.989** .000		()	
15	15				

0.99 (0.05 ≥ α)

%3

(1997):

) 100 1994 (1995

) %2

64 (1987-1970) (1989

(28) (Enter)

(28) (28)

(Enter)

(2008-1994)

sig F

(R^2) (R)

0,00 267,12 0,95 0,98

(28)

0.95

.(0.05
$$\geq \alpha$$
) 0.98

63,22 13,34 B (29) 0.00 (29)

sig B
63,22 0,00 8,52 13,34
)
(
(30)

(30) +B * =

			В		
76.56	80	63.22	13.34	1	1994
89.9	90	63.22	13.34	2	1995
103.24	100	63.22	13.34	3	1996
116.58	117	63.22	13.34	4	1997
129.92	128	63.22	13.34	5	1998
143.26	142	63.22	13.34	6	1999
156.6	150	63.22	13.34	7	2000
169.94	160	63.22	13.34	8	2001
183.28	170	63.22	13.34	9	2002
196.62	190	63.22	13.34	10	2003
209.96	202	63.22	13.34	11	2004
223.3	220	63.22	13.34	12	2005
236.64	258	63.22	13.34	13	2006
249.98	281	63.22	13.34	14	2007
263.32	245	63.22	13.34	15	2008
276.66		63.22	13.34	16	2009
290		63.22	13.34	17	2010
303.34		63.22	13.34	18	2011
316.68		63.22	13.34	19	2012
330.02		63.22	13.34	20	2013
343.36		63.22	13.34	21	2014
356.7		63.22	13.34	22	2015
370.04		63.22	13.34	23	2016
383.38		63.22	13.34	24	2017
396.72		63.22	13.34	25	2018
410.06		63.22	13.34	26	2019
423.4		63.22	13.34	27	2020
436.74		63.22	13.34	28	2021
450.08		63.22	13.34	29	2022
463.42		63.22	13.34	30	2023

 $.(0.05 \ge \alpha)$

;

+**B** * = 2008 1994

. .95

2013 (2023 - 2009) 396 2018 330

396 2018 330 . 463 2023

463 (1.268493)

и.

 $." \qquad (0.05 \ge \alpha)$

.2008-1994 (31)

(31) (2008-1994)

/	26837	1994
1	28970	1995
1	33784	1996
1	39005	1997
1	43343	1998
1	50330	1999
/	52796	2000
1	52662	2001
/	52913	2002
1	62115	2003
/	70266	2004
1	83129	2005
/	98055	2006
/	110630	2007
/	101066	2008

. (32)

(32)

39295	/
82465,67	/
52913	/
83129	/

(82465.67) / (39,295)

(33)

sig F				
0.07 7.035	2203990335	⁹ 10 ×6.6	3	
	313287870.3	⁹ 10 ×3.4	11	
		10 10 × 1.01	14	

7.035 F (0.05 $\ge \alpha$)

." $(0.05 \ge \alpha)$

(34) .2008-1994

(34) (2008-1994)

26837	1994
28970	1995
33784	1996
39005	1997
43343	1998
50330	1999
52796	2000
52662	2001
52913	2002
62115	2003
70266	2004
83129	2005
98055	2006
110630	2007
101066	2008

. (35)

(35)

29863,67

48698,25

43343

61589,5

62115

97271,3

101066

(101066)

(29863)

(36)

(36)

sig	F				
0.00	18.27	1562341273	⁹ 10 × 9.3	6	
		855111242.823	8 10 × 6.8	8	
			⁹ 10 × 1.1	14	

(36)

(18.27) F

 $(0.05 \ge \alpha)$

-)

138

(20029)

(1983)

· ":

(0.05 ≥α) ."

(37) .2008-1994

(37)

2008-1994)

18-20	26837	1994
24-26	28970	1995
25-28	33784	1996
24-27	39005	1997
21-24	43343	1998
25-28	50330	1999
24-27	52796	2000
24-27	52662	2001
24-27	52913	2002
24-27	62115	2003
24-27	70266	2004
18-20	83129	2005
18-20	98055	2006
18-20	110630	2007
24-26	101066	2008

(38)

97271,33	20	18
43343	24	21
101066	26	24
58150,4	27	24
50330	28	25

. (39)

sig	F				
0,05	11,93	1247747922	4	⁹ ^10 × 4,99	
		104633668,3	6	⁸ ^10 × 6,3	
			10	⁹ ^10 × 5,62	
			(39)		

(11,93) F (0.05 $\geq \alpha$)

(30-21)

(21)

·

(2006) (37-16) (1988) .

(2002) .

(2008) (34-16) .(%58)

(25-12)

(50-25)

 $(0.05 \ge \alpha)$

(40) .2008-1994

(40)

(2008-1994)

26837	1994
28970	1995
33784	1996
39005	1997
43343	1998
50330	1999
52796	2000
52662	2001
52913	2002
62115	2003
70266	2004
83129	2005
98055	2006
110630	2007
101066	2008

(41)

(41)

62446 59844,7 60349,3

> . (62446) .(59844.7)

. (42)

(42)

sig	F				
0,99	0,006	5272688042	2	10545377	
		837299350,1	12	¹⁰ ^10	
			14	¹⁰ ^10 × 1,01	

(0.99) $.(0.05 \ge \alpha)$

.

:

•

.

(%51) (1994)

```
(%32)
                            (1988
          (1998)
                                              (2004
               (2008)
                   (1997
                                        (2006
(1998
  )
                                        (1994
```

147

•

." $(0.05 \ge \alpha)$

.2008-1994 (43)

(43)

(2008-1994)

26837	1994
28970	1995
33784	1996
39005	1997
43343	1998
50330	1999
52796	2000
52662	2001
52913	2002
62115	2003
70266	2004
83129	2005
98055	2006
11063	2007
0 10106	2008
 6	

: (44)

(44)

467201,3 611624,3 571498,0 834334

> (83433) (467201)

(45)

 sig
 F

 0,00
 16,76
 69730266067
 3
 11 ^10 × 2,09

 4160237012
 6
 10 ^10 × 2,5

 9
 11 ^10 × 2,34

(0.000) $.(0.05 \ge \alpha)$

. (2004)

(1997)

 $(0.05 ≥ \alpha)$

(46) .2008-1994

(46)

(2008-1994)

26837	1994
28970	1995
33784	1996
39005	1997
43343	1998
50330	1999
52796	2000
52662	2001
52913	2002
62115	2003
70266	2004
83129	2005
98055	2006
110630	2007
101066	2008

: (47)

(47)

(2008-1994)

4168,2 50766,67 97271,33 101066

(101066)

.(4168)

(48)

(48)

sig	F					
	0,00	14,6	2680140361	3	⁹ ^10 × 8	
			183428772,3	11	⁹ ^10 × 2,02	
				14	¹⁰ ^10 × 1,01	

(14.6) F

 $(0.05 \ge \alpha)$

." $(0.05 \ge \alpha)$

. 2008-1994

(49)

(2008-1994)

/	26837	1994
/	28970	1995
/	33784	1996
/	39005	1997
1	43343	1998
1	50330	1999
1	52796	2000
1	52662	2001
1	52913	2002
1	62115	2003
1	70266	2004
	83129	2005
	98055	2006
/	110630	2007
/	101066	2008

: (50) (50)

57978.9	/
56049,5	
98055	

sig	F		
0,37	1,07	763045903,1	$2^{9}10 \times 1,53$
		711003814,3	$12^{-9} 10 \times 8,53$
			$14 ^{10} \land 10 \times 1,01$

(1.07) F (0.05
$$\ge \alpha$$
)

.

(2002)

. :

.(2008) (2006)

```
(52)
:
) =
```

0.04	12516	443	1994
0.04	13184	469	1995
0.04	15375	552	1996
0.04	16259	577	1997
0.04	17177	612	1998
0.04	19015	676	1999
0.04	18842	686	2000
0.04	18832	783	2001
0.04	17381	758	2002
0.05	18368	832	2003
0.05	16727	818	2004
0.04	17579	790	2005
0.05	18019	899	2006
0.06	17969	992	2007
0.05	13913	740	2008
0.63	251156	10627	
0.04	16744	708	

0.04-0.06

100 0.04

```
(53)
:
) =
(53)
```

0.47	12516	26837	1994
0.46	13184	28970	1995
0.46	15375	33784	1996
0.42	16259	39005	1997
0.40	17177	43343	1998
0.38	19015	50330	1999
0.36	18842	52796	2000
0.36	18832	52662	2001
0.33	17381	52913	2002
0.30	18368	62115	2003
0.24	16727	70266	2004
0.21	17579	83129	2005
0.18	18019	98055	2006
0.16	17969	110630	2007
0.14	13913	101066	2008
4.84	251156	905901	
0.32	16744	60393	

: 100,000

60,393

0.01

100,000

		()	
298,000	12516	4200	1994
307,319	13184	4290	1995
345,972	15375	4444	1996
353,457	16259	4600	1997
361,241	17177	4755	1998
388,061	19015	4900	1999
373,923	18842	5039	2000
363,412	18832	5182	2001
326,159	17381	5329	2002
335,182	18368	5480	2003
312,654	16727	5350	2004
321,195	17579	5473	2005
321,768	18019	5600	2006
313,979	17969	5723	2007
237,829	13913	5850	2008
4,960,151.20	251,156.00	76,215.00	
330,676.75	16,744	5,081	

360 300 100,000 330 330 100,000 0.16

•

(56)

: 100,000

) = 100,000

100.000*(/

(56)

100.000

		()	
10.55	443	4200	1994
10.93	469	4290	1995
12.42	552	4444	1996
12.54	577	4600	1997
12.87	612	4755	1998
13.80	676	4900	1999
13.61	686	5039	2000
15.11	783	5182	2001
14.22	758	5329	2002
15.18	832	5480	2003
15.29	818	5350	2004
14.43	790	5473	2005
16.05	899	5600	2006
17.33	992	5723	2007
12.65	740	5850	2008
207.00	10,627.00	76,215.00	
13.80	708	5.081	

13 17 10 100.000 13 100.000

```
650
                                                     130
                                        (57)
                                                         10000
           10000
) =
                10000*(
                      (57)
        10000
    411
                                   304893
                                                    1994
                    443
    410
                    469
                                   321373
                                                    1995
    449
                    552
                                   342337
                                                    1996
    448
                    577
                                   362811
                                                    1997
    441
                                   389196
                                                    1998
                    612
                                                    1999
    454
                    676
                                   418433
    398
                    686
                                   473339
                                                    2000
    369
                    783
                                   509832
                                                    2001
    320
                    758
                                   542812
                                                    2002
    321
                    832
                                   571498
                                                    2003
                    818
                                   612330
                                                    2004
    273
    259
                                                    2005
                    790
                                   679731
    239
                    899
                                                    2006
                                    755477
    213
                    992
                                   841933
                                                    2007
    154
                    740
                                   905592
                                                    2008
    5,160.19
                     10,627.00
                                    8,031,587.00
                       708
     344.01
                                      535,439
```

400 300 10000

```
344
                              10000
                                                            344
  100.000
                                              3440
                                         (58)
                                                         10000
) =
           10000
                 10000*(
                                      1
                      (58)
        10000
       14.5
                    443
                                   304893
                                                    1994
       14.6
                     469
                                   321373
                                                    1995
       16.1
                     552
                                   342337
                                                    1996
       15.9
                     577
                                   362811
                                                    1997
       15.7
                     612
                                   389196
                                                    1998
       16.2
                     676
                                                    1999
                                   418433
       14.5
                     686
                                   473339
                                                    2000
       15.4
                     783
                                   509832
                                                    2001
                     758
                                   542812
                                                    2002
       14.0
       14.6
                                   571498
                                                    2003
                     832
       13.4
                     818
                                   612330
                                                    2004
       11.6
                     790
                                   679731
                                                    2005
       11.9
                     899
                                   755477
                                                    2006
       11.8
                                                    2007
                     992
                                   841933
       8.2
                                                    2008
                     740
                                   905592
                  10,627.00
                                 8,031,587.00
     208.24
```

```
16
                              10
                                                 10000
13
                           10.000
                                                       13
                            100.000
     130
                                    (59)
                                               /
                  (59)
    /
                             (
     2981
                                   80
                                                1994
                    26837
    3107
                    28970
                                   90
                                                1995
    2960
                    33784
                                   100
                                                1996
    3000
                    39005
                                                1997
                                   117
    2953
                    43343
                                   128
                                                1998
    2821
                    50330
                                   142
                                                1999
    2841
                    52796
                                   150
                                                2000
    3038
                    52662
                                   160
                                               2001
    3213
                    52913
                                               2002
                                   170
     3059
                    62115
                                   190
                                               2003
    2875
                    70266
                                   202
                                               2004
    2646
                    83129
                                   220
                                                2005
    2631
                    98055
                                               2006
                                   258
    2540
                   110630
                                  281
                                                2007
    2424
                   101066
                                  245
                                               2008
    43,089
                   905,901
                                  2,533
    2,873
                   60,393
                                   169
```

2872 3200 2400

(60)

:

. /

(60)

2236	12	26837	1994
2414	12	28970	1995
2815	12	33784	1996
3250	12	39005	1997
3612	12	43343	1998
4194	12	50330	1999
4400	12	52796	2000
4389	12	52662	2001
4409	12	52913	2002
5176	12	62115	2003
5856	12	70266	2004
6927	12	83129	2005
8171	12	98055	2006
9219	12	110630	2007
8422	12	101066	2008
75,492	180	905,901	
5,033	12	60,393	

5,475

905,901

60,393

2,482

5,475

905,901

60,393

```
3
                                                      1994
        7
                                                        12
                                                             2008
                                               (63)
/
                                   ) =
                      100* (
                                                          +
                            (63)
                     12516
                                            26837
          443
                                  443
                                                        1994
          469
                                            28970
                                                        1995
                     13184
                                  469
                     15375
          552
                                  552
                                            33784
                                                        1996
          577
                     16259
                                  577
                                            39005
                                                        1997
          612
                     17177
                                  612
                                            43343
                                                        1998
                                                        1999
          676
                     19015
                                  676
                                            50330
          686
                                  686
                                            52796
                                                        2000
                     18842
          783
                                  783
                                            52662
                                                        2001
                     18832
          758
                     17381
                                  758
                                            52913
                                                        2002
          832
                     18368
                                  832
                                            62115
                                                        2003
          818
                     16727
                                  818
                                            70266
                                                        2004
          790
                     17579
                                  790
                                            83129
                                                        2005
          899
                                  899
                                            98055
                                                        2006
                     18019
          992
                                           110630
                                                        2007
                     17969
                                  992
          740
                                  740
                     13913
                                           101066
                                                        2008
         10,628
                    251,156
                                10,627
                                           905,901
```

60,393

16,744

. 708 (64) :

(64)

0.04	13546	304893	1994
0.05	16480	321373	1995
0.06	20964	342337	1996
0.05	20474	362811	1997
0.06	26385	389196	1998
0.06	29237	418433	1999
0.11	54906	473339	2000
0.07	36493	509832	2001
0.06	32980	542812	2002
0.05	28686	571498	2003
0.06	40832	612330	2004
0.09	67401	679731	2005
0.10	75746	755477	2006
0.10	86456	841933	2007
0.07	63659	905592	2008
1.03	614,245	8,031,587	
0.07	40,950	535,439	

13.775	4200	304893	1994
13.349	4290	321373	1995
12.981	4444	342337	1996
12.679	4600	362811	1997
12.217	4755	389196	1998
11.710	4900	418433	1999
10.646	5039	473339	2000
10.164	5182	509832	2001
9.817	5329	542812	2002
9.589	5480	571498	2003
8.737	5350	612330	2004
8.052	5473	679731	2005
7.413	5600	755477	2006
6.797	5723	841933	2007
6.460	5850	905592	2008
154.39	76,215	8,031,587	
10.29	5,081	535,439	

6 13

0.48	12516	443	26837	1994
0.47	13184	469	28970	1995
0.47	15375	552	33784	1996
0.43	16259	577	39005	1997
0.41	17177	612	43343	1998
0.39	19015	676	50330	1999
0.37	18842	686	52796	2000
0.37	18832	783	52662	2001
0.34	17381	758	52913	2002
0.31	18368	832	62115	2003
0.25	16727	818	70266	2004
0.22	17579	790	83129	2005
0.19	18019	899	98055	2006
0.17	17969	992	110630	2007
0.14	13913	740	101066	2008
5.01	251,156	10,627	905,901	
0.33	16,744	708	60,393	

0.48

0.33

0.034	12959	12516	443	1994
0.034	13653	13184	469	1995
0.035	15927	15375	552	1996
0.034	16836	16259	577	1997
0.034	17789	17177	612	1998
0.034	19691	19015	676	1999
0.035	19528	18842	686	2000
0.04	19615	18832	783	2001
0.042	18139	17381	758	2002
0.043	19200	18368	832	2003
0.047	17545	16727	818	2004
0.043	18369	17579	790	2005
0.048	18918	18019	899	2006
0.052	18961	17969	992	2007
0.051	14653	13913	740	2008
0.61	261,783	251,156	10,627	
0.040	17,452	16,744	708	

0.43

0.040 0.51

```
2.4
                                                   - 1
                                                   -2
26837
                      304893
 .101066
                          905592
                                                   -3
               4.2
                  5.8
                                          26837
                                        .101066
                                                   -4
                                2533)
169
                                                   -5
                                                   -6
                                                   -7
                  .(21-18) (26-24)
                                                   -8
(
                                            )
                                                   -9
```

```
-10
                    .(
                                            )
                                            -11
                      (7.65) 2023
2008
                                      5.8
                                            -12
              (1455246) 2023
                             (905592) 2008
                                            -13
    (187040) 2023
              . (101066) 2008
                                            -14
                  (1400) 2023
2008
                                 . (740)
                                            -15
                (20898) 2023
                         . (13913) 2008
                                            -16
 463 ) 2023
          . ( 245) 2008
                                            -17
```

	3.4
:	
.(30-21)	-1
	-2
•	-3
	-4
	-5
•	
	-6
п	-7
п	-8
	-9

(1987)

. (2002)

(2005)

(2008)

(1993)

. 3 8 (1994)

. 37

(2003)

(2002)

.42 11

```
(1996)
                                    (2004)
                        .2004
                        (2006)
                        (1988)
                                         (1985)
                      1
                                   (1982)
 .1
                           (
                                     ( 2008 )
                 (1987)
                ( 1986)
                        .6
                  (1995)
/1
                             (2005)
```

(1989) .(2006) (2008) .(2001) 1997 .(1998) (2005). 190-187 .(1996) .46

. . .46
.(1989)

(2000).

(2005) 8—1 (2000-1970) (2001) (2001) (2007).150-30 (1995) (1997) .(17-14) 46 (2006) (2005). (2000). (2002) .45-25-16 .(2001).

(2000)

. (1998)

. . (1999)

(1994)

(1994)

(1987)

. (2006) (1999)

. (1989).

(2003) . 2000-1998

(2002) (1998) (1997).20-18 54 (2002) (1995) .189 .(2008-1994) () (1999) 339 (2004) .(1985) .(1988)

.(2007)

(1982).

.(1995)

AA Foundation for Road Safety Research, (1988) **Motoring and the Older Driver.**Summary Document, AA, Basingstoke, UK.

- Andrew p. Tarko, (2008), **School OF Civil Engineering**, Purdue University, 550 Stadium Mall Drive, West Lafayette, USA.
- Alkers R.L, (1990) **Rational Choice Deterrence, and Social Learning Theory in Criminology**: The Journal of Criminal Law and Criminology, 81, 3, (653-676).
- Barry, Watson, (2002) how effective is Deterrence Theory in Explaining Driver Behavior: A case Study of Unlicensed Driving.
- Barry, Watson (2004) **The Psychosocial Characteristics On Road Behavior of Unlicensed Drives**, Unpublished Doctoral Thesis Brisbane Centre for Accident Research Road Safety Queensland (CARRS-Q) OUT.
- Blanchard, E. B., and Hickling, E. J., (2003) After the Crash: Assessment and Treatment of Motor Vehicle Accident Survivors, 2nd edition, The American Psychological Association (APA) Publications.
- Mazerolle, p., & Piquero, A, R, (2001). **General Strain Theory, Situational Anger, and Social Network**, journal of crime and justice.29, 445-461
- Clark, R, Felson, M, (1993) Routine Activity, Rational Choice, London.
- Danny Koren. (1999). Acute Stress Response and Posttraumatic Stress Disorder in Traffic Accident Victims: A One Year Prospective, Follow-UP Study. http://ajp.Psychiatryonline.org/cgi/content/full.
- Frederick A. Diblasio (1986). **Drinking Adolescent on the Roads**. Journal of Youth and Adolescence, Vol. 15, No. 2, 1986.

- Geralled J.S.Wild (1998) Risk Homeostasis Theory and Traffic Accedent:Proposition, Deductions And Discussion of Dissension in Recent Reaction, Department Psychology, Queen University, Kingston, Ontario, Canada, Vo 31, Issue 4, P 441-468.
- Hauschildt, E. (2002), Acute Stress Disorder Seen In Children, Parents after Traffic Injury. Pediatrics Electronic Pages.
- Hider, f, (1958), **the Psychological Of Interpersonal Relationship**. NEW YORK. John Wily.17, (7-82).
- Hindelang, M, J.Gottfredson, N.Garofallo, J (1978). Victim's of Personal Crime; an Empirical Foundation for a theory of Personal, Victimization. Cambridge Mass.
- Jemenz- Moleon JJ, Lavdelli. (2004), **The Effect of Age, Sex, and Experience on The Risk of Causing Acar in Drivers Age 17-24 Years Old**. University Granada, Spain.
- Lajnen T, (1998). Dimensions of Driver Anger, Aggressive and Highway Code Violations and their Mediation by Safety Orientations in UK Drivers. Transportations Research, F 1, 107-121.
- Mazerolle p & Piquero, A, R (1998). Violent Responses to Situations of Strain: Structural Examination, Justice Quarterly, 15, 65-91.
- Mazerolle, P, Piqnero (2003), **Examining the Links between Strain Situational and Dispositional Anger, and Crime, Youth, and Society**, 35(131-157). 29(445-461).
- Miao M. Chong, Ajith Abraham, Marcin Paprzycki(1995). **Traffic Accident Analysis Using Decision Trees and Neural Networks.** Computer Science Department, Oklahama State Uneversity, USA.
- Roger Blackman, PHD. **Personal Risk: Risk Behavior and Young Drivers**, Simon Fraser University, Burnaby, B.C, Canada. Issue Recovery magazine.
- Rothe,(1986). **Rethinking Young Drivers, Traffic Safety Planing and Research**, Britsh Colombia, USA.
- Stephenson W (2001) **the Study of Behavior**: Journal of Public Relations Research Vol (13) NO (3) pp 51-5.
- Steven J.Ellwanger (2007) (Crime Delinquency) Drivers Measuring and Testing, General Strain Theory in the Strain, Attribution, and Traffic Delinquency among Young. (423-439) Available on Ellwanger / Juvenile Traffic Delinquency 551.
- Steven.vago (1989) op.cit.p.9. **Acedeny.org./wesima- articles /library** -- http://www.ao- academy. Org / wesima articles / library. Html, Cynthia enloe: **making feminist sense in international university of Californian, press,** 1989.politics, berkely.

- Stallard, Paul. Salter, Emma, Velleman, R., and Baldwin, S. (1998). **Prospective Study Of Post-traumatic Stress Disorder in Children Involved in Road** Traffic Accidents. British Medical Journal, December 12; 317(7173): 1619–1623.
- Taska, L, (2000) Review of the Literature Aggressive Driving Research Aggressive Driving Issues Conference, p1-11 http://www.aggresive Driver's.com / papers /Tasca. PDF.
- Thomas F. Golobal. (2004) **Traffic Conditions and Truck Accidents on Urban Freeways.** Institute of Transportation Studies University of California, Lrvine. USA.
- Valdivieso Rafael (1999), **AL-Risk Students A culture of Concern, the Education Digest, M1**, Vol, (18), No (4), pp 12-19.
- Van Wolffelar, Brouwer, w. And Rothengatter, (1990), **Divided Attention** in **RTI Tasks for Elderly Drivers.** Traffic Research Center, University Of Groningen.